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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/521,578 | 10/17/2005 | Maciej Korecki | 122401 | 4030 |
| 25944 | 7590 06/16/2006 | | EXAMINER | |
| OLIFF & BERRIDGE, PLC P.O. BOX 19928 | | PASCHALL, MARK H | | |
| | A, VA 22320 | • | ART UNIT | PAPER NUMBER |
| | • | | 3742 | |

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Paper No(s)/Mail Date <u>04-15-2005</u>.

U.S. Patent and Trademark Office

Office Action Summary

4) Interview Summary (PTO-413)

Paper No(s)/Mail Date. ___

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

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DETAILED ACTION

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (a) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

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The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The title should be amended to reflect heating and cooling control via frequency conversion. Correction is required.

The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 defines that the heating elements and motor driven gas blower are connected through contactors to the output of a frequency converter. No mention is made of just what the frequency converter does or what it converts. This term is vague and indefinite barring further clarification of the connection and purpose of the same in the control circuit. Line 5 of the claim mentions "temperature progress, and it is not clear just what this encompasses. It is not clear if the temperature sensor is connected to these elements, and if it is it should be set froth in the claims elements and their connection to one another. On line 6, the term "unique is vague and indefinite. On line 9 it is not clear if the heater elements are connected in control with

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the blower motor or not. It is not clear if the contactors SG and SD, defined as simultaneously connected to the frequency converter, and if they are, this limitation should be set forth in lines 9-10. The term "unique" should be deleted from claims 2-5, and the elements in those claims should be claimed in a connected format, in structural claim limitation format, or means plus function format. As presented the claims do not enable one of ordinary skill in the art to make and use the same, within the context of 35 USC 112, second paragraph. The claims are required to be redefined in response to the above-disclosed vagueness. The claims will be examined in light of prior art when presented in a comprehensible format.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Verhagen, 270' and 189' are cited for disclosing subject matter pertinent to the disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark H. Paschall whose telephone number is 703 308-1642. The examiner can normally be reached on 7am - 3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mark H Paschall Primary Examiner Art Unit 3742 MAPadu

Mp